

## **PUGET SOUND BEACH CSO PROJECTS**

### ***North Beach Pump Station and CSO Facility***

As part of its mission to protect public health and the environment, King County is responsible for conveying and treating wastewater collected by 34 local city and sewer agencies, including the City of Seattle.

#### **Upgrades needed to North Beach Facilities**

King County has operated a pump station and sewer line in the North Beach area for more than 40 years. These aging facilities need to be upgraded to provide safe and reliable operations and capacity for the future. The North Beach Pump Station does not meet current county design standards or building and seismic codes. The station also has no odor control unit.

The North Beach force main sewer conveys wastewater from North Beach Pump Station to the Carkeek Pump Station. From there, wastewater goes on to the West Point Treatment Plant. The pipe needs to be evaluated to determine its condition. Because of its location in the tidal area of Puget Sound, access to the pipe and maintenance are difficult. The existing single pipe may not provide adequate capacity for the future.

#### **Reducing Combined Sewer Overflows (CSOs) at North Beach**

During heavy rains when flows exceed the capacity of the sewer system, the system can overflow into Puget Sound at North Beach. When this happens, about 90 percent of the combined volume of the overflow is storm water and the rest is diluted sewage. These events are called combined sewer overflows, or CSOs. CSOs help to avoid sewer backups into homes and businesses and onto streets during storms. Between June 2000 and May 2007, the North Beach CSO discharged on average 9 times each year, a total of 2.2 million gallons per year.

CSOs are a public health and environmental concern because untreated wastewater and storm water may be discharged to Puget Sound during large storms. King County's goal is to reduce the number of CSOs each year, with a long-term

goal of less than one untreated discharge per location per year to meet state regulations.

To protect Puget Sound and meet our goal, the county is identifying CSO control options for North Beach, West Seattle, and South Magnolia. These locations are top priority because people are most likely to come in contact with water during recreational activities such as swimming.

The map (over) shows the area draining to North Beach and nearby facilities. At North Beach, CSO control options may include:

- **Storage** of peak flows during large storms. Once the storm passes, flows would be sent to West Point Treatment Plant. This option would involve constructing a storage tank or pipe in the North Beach drainage basin.
- **Pumping** more of the flows out of the basin by increasing the capacity of the North Beach Pump Station, force main, and downstream facilities. This option may also involve managing these CSO flows at the Carkeek CSO treatment plant.
- **Reducing flows** of storm water and ground water into the wastewater collection system. The county will work with the City of Seattle to find ways to reduce flows into the city or county system.
- **Treatment of peak flows** during large storms. This option would involve constructing a local CSO treatment facility in North Beach that would operate only a few times a year.

#### **Your comments and ideas are welcome**

The county is committed to working with the local communities to evaluate alternatives and address suggestions and concerns. We will work with the public to identify potential community and environmental impacts early in the environmental and design review processes. Our public information and involvement program will continue throughout design, construction and operation of the facilities.

## NORTH BEACH CSO PROJECT AREA



These options can be used alone or in combination, depending on local conditions at North Beach.

### For More Information

- For more information or to be added to the project mailing list, please call **Jennifer Kauffman** at **206-263-6029** or **711 TTY Relay** or e-mail [jennifer.kauffman@kingcounty.gov](mailto:jennifer.kauffman@kingcounty.gov)
- Visit the project Web site at: [www.dnr.metrokc.gov/wtd/projects/cso/](http://www.dnr.metrokc.gov/wtd/projects/cso/)

### Schedule for North Beach CSO Project

2007–2008	Evaluate alternatives for reducing CSOs
2009–mid-2010	Predesign and environmental review
2010–2011	Final design & permitting
2012–2013	Construction



### King County

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